

UNITS:mm[inch]

ROTATION FROM NDE

CCW CW

NOTES:

1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
3. KEY DIMENSIONS EQUAL 7/8"-7/8"-6 7/8" (MOTOR SUPPLIED WITH KEY)

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE PRELIMINARY

DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED CERTIFIED

TOSHIBA SEVERE DUTY **EQP Global SD**

www.toshiba.com/tic

TOSHIBA INTERNATIONAL CORPORATION

TOTALLY ENCLOSED FAN COOLED
 HORIZONTAL FOOT MOUNT
 3 PHASE INDUCTION MOTOR
 S445/7T F3 ASSEMBLY

DRAWING #: MDSL7002-02F3

REV. DATE: Mar-04-20 REV. #: 0 PER: Mai Huyen

REV. DESCRIP: -

TYPICAL MOTOR PERFORMANCE DATA

Model: 2004SDSB41A-P3

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| 200 | 150 | 4 | 1785 | S447T | 460 | 60 | 3 | 231 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 54 | F | 1.15 | CONT | 96.2 | B | | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|-------|---------|----------------|------------------|
| Full Load | 200.00 | 149.1 | 230 | 96.3 | 84.2 |
| ¾ Load | 150.00 | 111.9 | 178 | 95.8 | 82.2 |
| ½ Load | 100.00 | 74.6 | 129 | 94.6 | 76.2 |
| ¼ Load | 50.00 | 37.3 | 90 | 90.5 | 57.4 |
| No Load | | | 73.5 | | 3.8 |
| Locked Rotor | | | 1421 | | 28.2 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|----------------------|-------------------------|--------------------|-----------------------|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 588 | 185 | 105 | 275 | 74.36 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|-----|------------------------------|-----------|--------|-------------------------------|
| Cold | Hot | | DE | NDE | |
| 35 | 13 | 83 | 6318C3 | 6316C3 | |

*Bearings are the only recommended spare part(s).

Motor Options:
Product Family:EQP Global Top Mount
Mounting:Footed,Shaft:T Shaft

| | | |
|-------------|--|--|
| Customer | | |
| Customer PO | | |
| Sales Order | | |
| Project # | | |

Tag:

All characteristics are average expected values.

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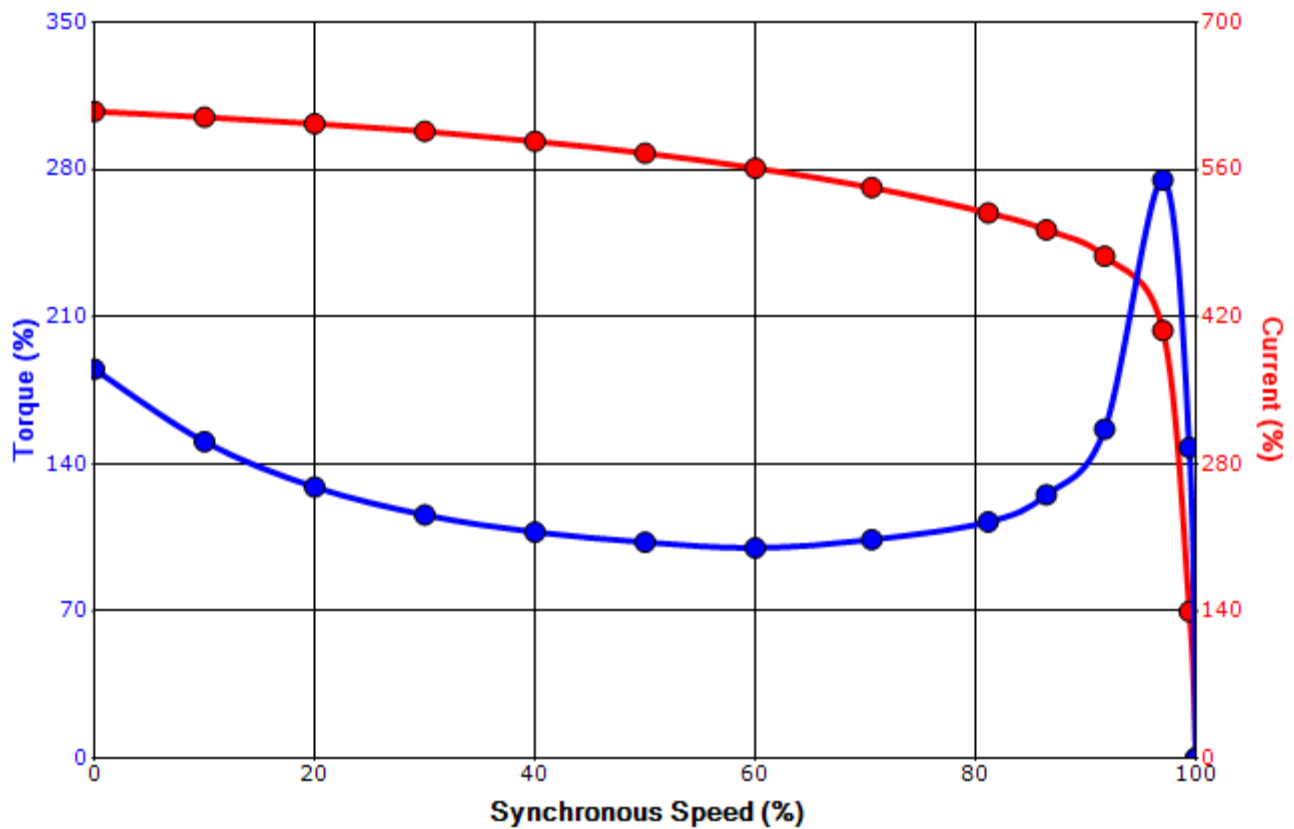
| | | | | | |
|-------------|------------|------------------|-------------|-------------|---------------|
| Engineering | mcampbell | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date | 11/12/2018 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

SPEED TORQUE/CURRENT CURVE

Model: 2004SDSB41A-P3

| | | | | | | | | |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 200 | 150 | 4 | 1785 | S447T | 460 | 60 | 3 | 231 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 54 | F | 1.15 | CONT | 96.2 | B | | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | | | Break Down (%) |
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | | | | |
| 1421 | 74.36 | 588 | 185 | 105 | | | 275 | |

Design Values



| | | | |
|-------------|--|--|-----|
| Customer | | wk ² Load Inertia (lb-ft ²) | - |
| Customer PO | | Load Type | - |
| Sales Order | | Voltage (%) | 100 |
| Project # | | Accel. Time | - |

Tag:

All characteristics are average expected values.

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| | | | | | |
|-------------|------------|------------------|-------------|-------------|---------------|
| Engineering | mcampbell | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 11/12/2018 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

Motor Connection Diagram

12 Leads

Single Voltage



Switch L1 and L2 to reverse rotation